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sedneuce	IQSLKDDPSQ SANLLAEAKK LNDAQAPK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK IRSLYDDPSQ SANLLAEAKK LNDAQAPK IRSLYDDPSQ SANLLAEAKK LNDAQAPK	SLSDDPSQ SANLLAEAKK LNDAQAPK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK		SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK IRSLYDDPSQ SANLLAEAKK LNDAQAPK	SANLLAEAKK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK		SANLLAEAKK	SANLLAEAKK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK	IRSLYDDPSQ SANLLAEAKK LNDAQAPK	
Amino acid s	VDNKFNKEQQ NAFYEILHLP NLNEEQRNAF IQ	NLN WT QSRAF NLN PEQRR AF NLN NKQKA AF	vdnkfnke wv qags el yn lp nln ra qmraf ir:	VDNKFNKEMR HAYWEIVKLP NLNPROKRAF IR	HAYWEIATLP NINNVOKRAF	VDNKFNKE FR TAYW EI VL LP NLN PG Q IR AF I R 3	TAYWEIVILP NINTWOIRAF	KAYWEIAVLP NINPAOKRAF	VDNKFNKEMR NAYWELALLP NLNNQOKRAF IR: VDNKFNKFLR TAYWETVGIP NINHFOVRAF TR:	TAYWEIVILP NINRWOIRAF	NLN NM QKRAF	VDNKFNKE FR KAYW EI VV LP NLN RM Q IR AF I R 3	TAYWEIVILP NINREQGRAF	TAYWEIATLP NINNKOIRAF	NAYWEIVVLP NINNROKRAF	NLN NG QKRAF	QAYWEIALLP NINHSQTRAF	HAYWEIVKLP NINSLOKRAF	TAYWEIVGLP NINSROSRAF	TAYWEIAGLP NINPKOKRAF	KAYWEITQLP NINTROTRAF	VDNKFNKE FR KAYW EI VL LP NLN WE Q NR AF I R 3	NIN REQNR AF	VDNKFNKE MR HAYW EI AT LP NLN TN Q SR AF I R 3	VDNKFNKE MR NAYW EI VG LP NLN RW QSRAF I R 3	
Polypeptide	Zwt	A B C	Ω		ZHER2:102			· · · · ·		ZHER2:108		<u>.</u>						0							-	

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i sequence		KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	KK LNDAQAPK	
	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANILAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	SANLLAEAKK	
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Amino acid	NLN PW QHRAF	NLNVRQSRAF	NLNDYOKRAF	NLNRLOSRAF	NLN AQQKR AF	NLNADOKRAF	NLNKTOSRAF	NLN PGOSRAF	NLNNMOKRAF	NLN KW QSRAF	NLN RWQIR AF	NLN RWQTR AE	NIN REQNR AF	NLNNQOKRAF	NLN VN QTRAF	NLN AGQHR AF	NLNPSQHRAF	NLN PPOKRAF	NLNTSQTRAE	NLNVROKRAF	NLN RF QKRAF	NIN QGQKR AF	NLNNSQRRAF	NINSAOKRAF	NLNRWOSRAF	NLNKWQIRAF	NLNVAQKRAF	NLN SGOHRAF	NLN IAQNRAF	NINRNOSRAF	NLN PG QSRAF	
	NAYWEIVKLP	TAYWEIVKLP	TAYWEIVKLP	TAYWEITQLP	TAYWEIAGLP	QAYWEIVRLP	NAYWEIVTLP	QAYWEIVKLP	TAYWEIALLP	KAYWEIALLP	KAYWEIALLP	QAYWEIVLLP	KAYWEIVGLP	TAYWEIVGLP	TAYWEIVRLP	HAYWEIVRLP	KAYWEIVTLP	TAYWEIAKLP	TAYWEIVTLP	KAYWEIQVLP	QAYWEIVL LP	NAYWEIVGLP	QAYWEIVKLP	TAYWEIVRLP	NAYWEIVLLP	TAYWEIVILP	NAYWEIALLP	QAYWEIVKLP	TAYWEIVKLP	TAYWEIVSLP	NAYWEIVKLP	
	VDNKFNKE LR	VDNKFNKEFR	VDNKFNKENR	VDNKFNKEFR	VDNKFNKEIR	VDNKFNKEMR	VDNKFNKEMR	VDNKFNKEMR	VDNKFNKEMR	VDNKFNKEFR	VDNKENKEMR	VDNKENKEMR	VDNKFNKELR	VDNKFNKEMR	VDNKFNKELR	VDNKFNKEFR	VDNKFNKELR	VDNKFNKEMR	VDNKFNKELR	VDNKFNKELR	VDNKFNKE PR	VDNKFNKEMR	VDNKFNKEPR	VDNKENKENR	VDNKFNKEMR	VDNKFNKEMR	VDNKFNKEMR	VDNKFNKEFR	VDNKFNKEMR	VDNKFNKELR	VDNKFNKEMR	•
Polypeptide	ZHER2:129	Zurpo: 130	Zurbo.133	Zurbo.125	$^{\circ}$	\circ	Zueno.130	Zurbo.140					Zueno. 162	Zirkz: 102	Zueno. 167	Zueno. 160		, ,	Zueno.171	Zurbo.172	Zueno.177	Zurbo.170	Zurbo.170	Zurbo.180	Zurbo. 205		Zueno: 2007	Zueno: 222	Zuebo. 222	Zurbo.225	ZHEP2.226	

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SEQ ID NO	61	62	63	64	65	99	29	89	69	70	71	72	73	74	75	92	77	78	79
Amino acid sequence	ALLP NINRWOIRAF IRSLYDDPSQ SANLLAEAKK INDAQAPK	AVLP NLNNQOKRAF IRSLYDDPSQ SANLLAEAKK LNDAQAPK	VKLP NLNNAQKRAF IRSLYDDPSQ SANLLAEAKK LNDAQAPK	WLP NINSKOKRAF IRSLYDDPSQ SANLLAEAKK INDAQAPK	VTLP NLNKWOIRAF IRSLYDDPSQ SANLLAEAKK LNDAQAPK	TLP NINKSOSRAF IRSLYDDPSQ SANLLAEAKK LNDAQAPK	VTLP NLNVGOTRAF IRSLYDDPSQ SANLLAEAKK LNDAQAPK	VGLP NINTROSRAF IRSLYDDPSQ SANLLAEAKK INDAQAPK	VQLP NINREQGRAF IRSLYDDPSQ SANLLAEAKK INDAQAPK	IKLP NLNGKOHRAF IRSLYDDPSQ SANLLAEAKK LNDAQAPK	VSLP NLNTLOSRAF IRSLYDDPSQ SANLLAEAKK LNDAQAPK	QGLP NINNROKRAF IRSLYDDPSQ SANLLAEAKK INDAQAPK	AKLP NINREOKRAF IRSLYDDPSQ SANLLAEAKK INDAQAPK	VGLP NINMIQQRAF IRSLYDDPSQ SANLLAEAKK INDAQAPK	VKLP NINRAQNRAF IRSLYDDPSQ SANLLAEAKK INDAQAPK	IKLP NIN NY QRRAF IRSLYDDPSQ SANLLAEAKK INDAQAPK	RLP NLN NK OKTAF IRSLYDDPSQ SANLLAEAKK LNDAQAPK	IDLP NIN tp o ih af i r sl y ddpsq sanllaeakk indaqapk	VNLP NLN OG ORHAF IKSLYDDPSQ SANLLAEAKK LNDAQAPK
	VDNKENKEMR QAYWEIAL	TAYWEL	VDNKFNKECR TAYWEIVK	VDNKENKE PK TAYW EI VV	VDNKENKEMR NAYWEIVT	VDNKFNKEMR KAYWEIATLP	TAYWEI	VDNKFNKE LR TAYW EI VG	HAYWEI	HAYWEI	VDNKFNKEMR TAYWEIVS	VDNKFNKE MR KAYW EI QG	VDNKFNKEMR NAYWEIAK	VDNKFNKE MR HAYW EI VG	VDNKFNKE LR NAYW EI VK	VDNKFNKELR TAYWEIIK	VDNKFNKEPR EAYWEIQRLP	VDNKENKE MY AAYW EIID	VDNKENKE TR SAYW EI VN
a	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	VDNK	 VDNK	VDNK	VDNK]
Polypeptide	ZHER2:227	ZHER2:229	ZHER2:230	ZHER2:232	ZHER2:233	ZHER2:234	ZHER2:235	ZHER2:236	ZHER2:237	$^{ m Z}_{ m HER2:239}$	$^{ m Z}_{ m HER2:240}$	ZHER2:261	ZHER2:264	ZHER2:265	$^{ m Z_{HER2:271}}$	ZHER2:278	$^{ m Z}_{ m HER2:0024*}$	ZHER2:0434	ZHER2:3053

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His₆-Z_{HER2}
MGSS His₆

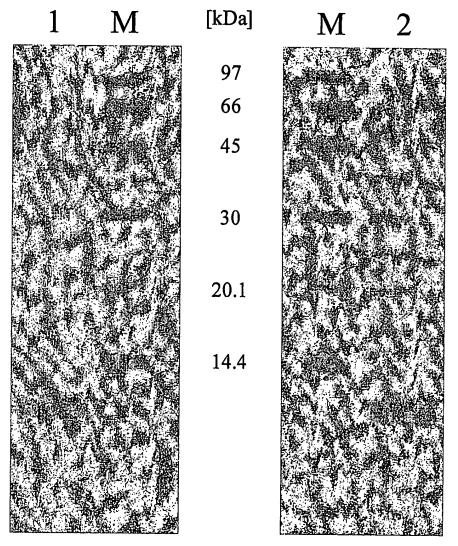


FIGURE 3

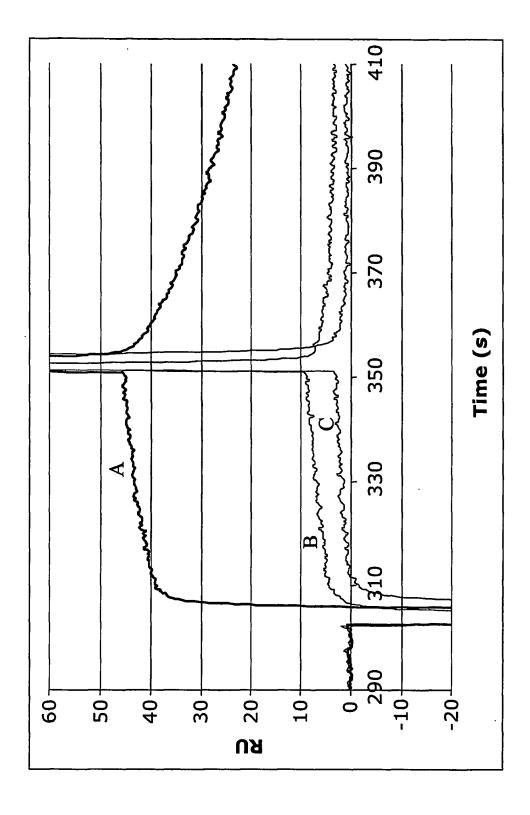
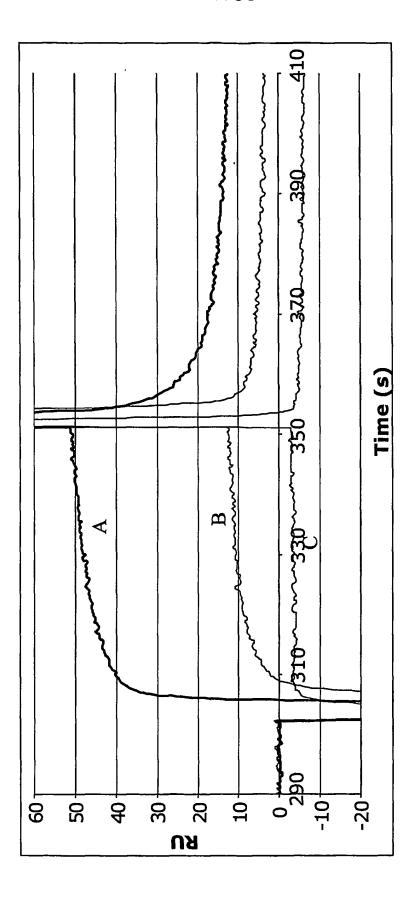


FIGURE 4



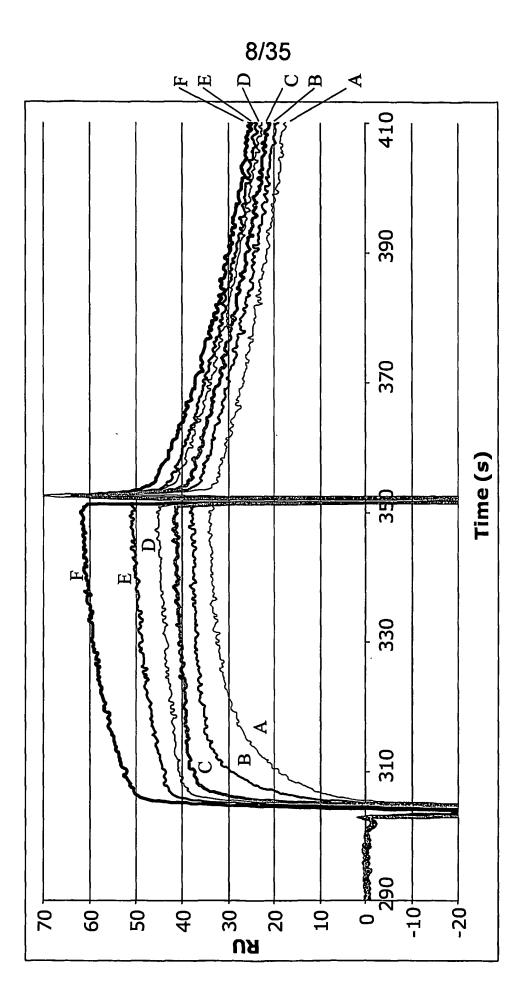


FIGURE 6



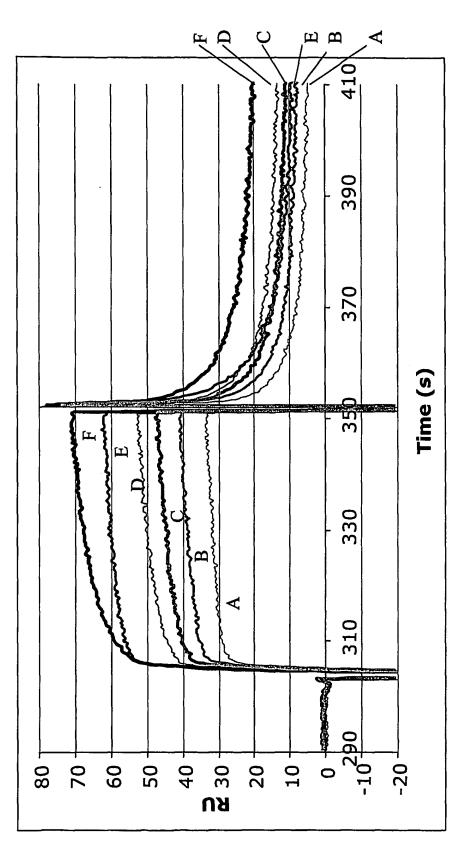
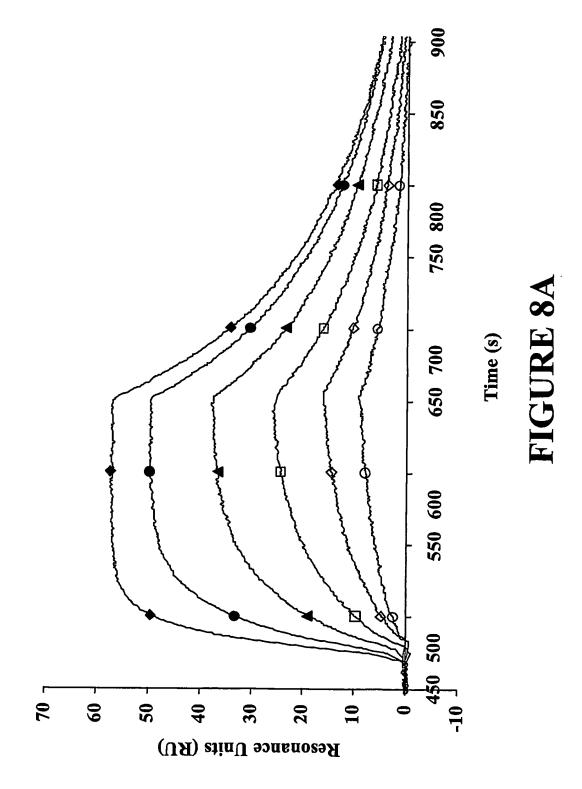
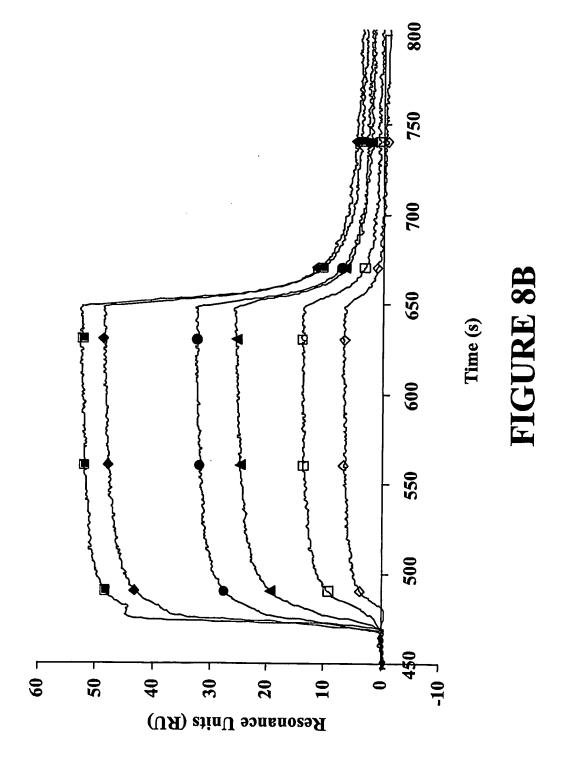


FIGURE 7

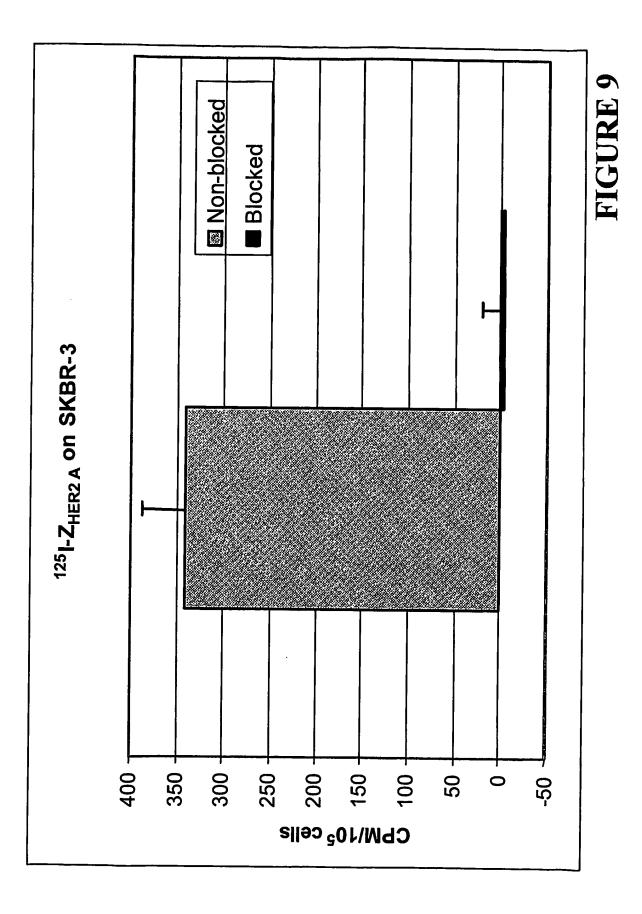
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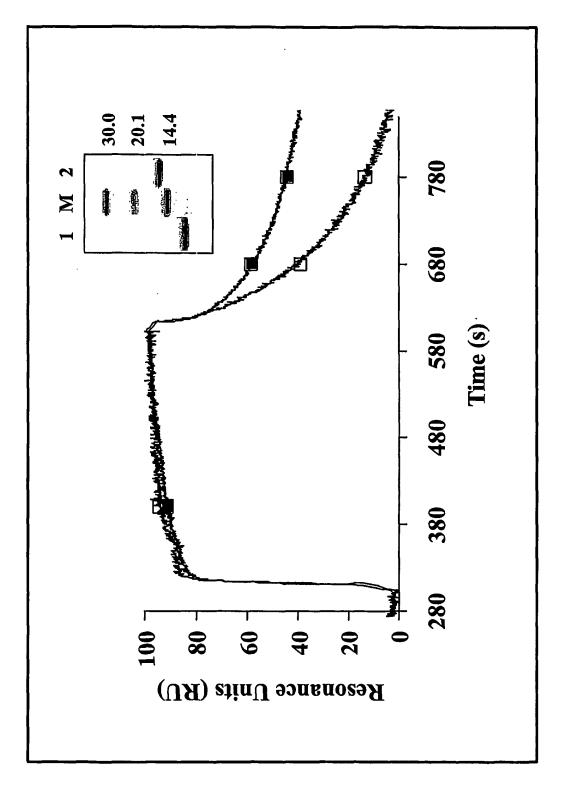
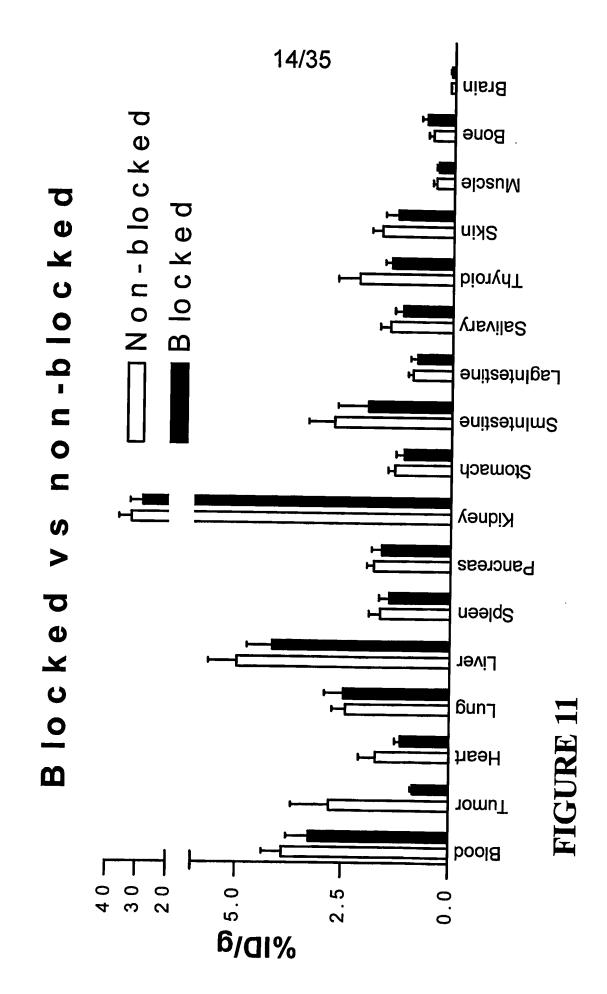
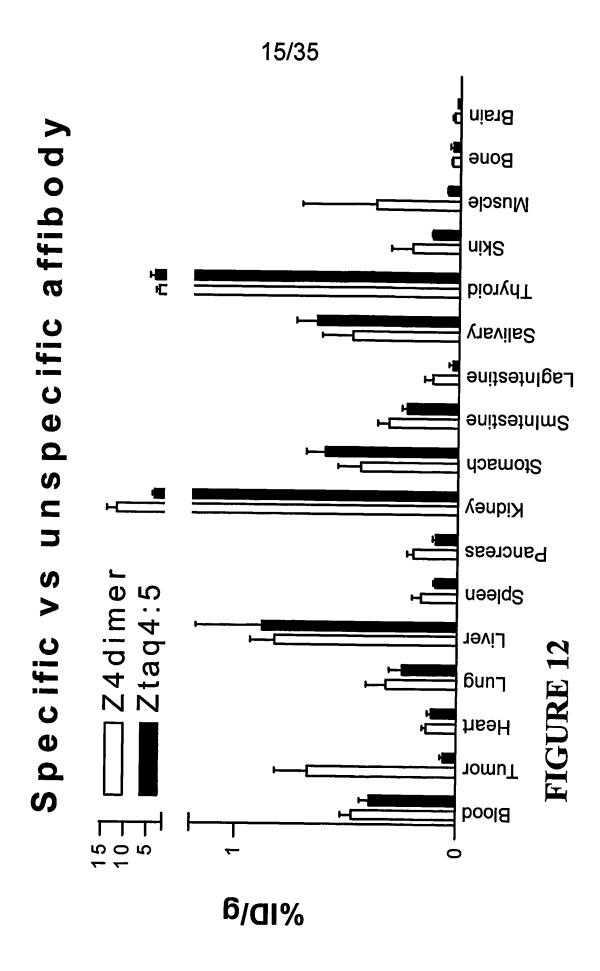


FIGURE 10

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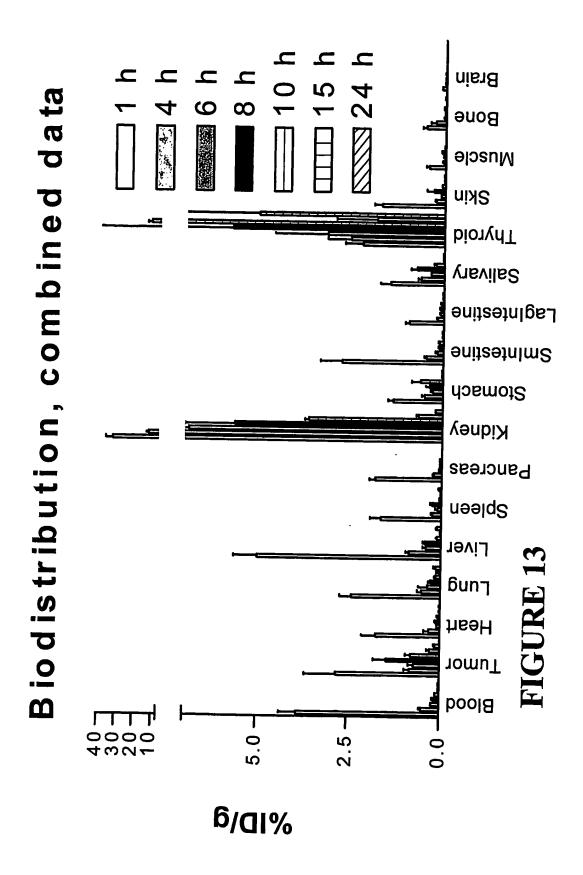


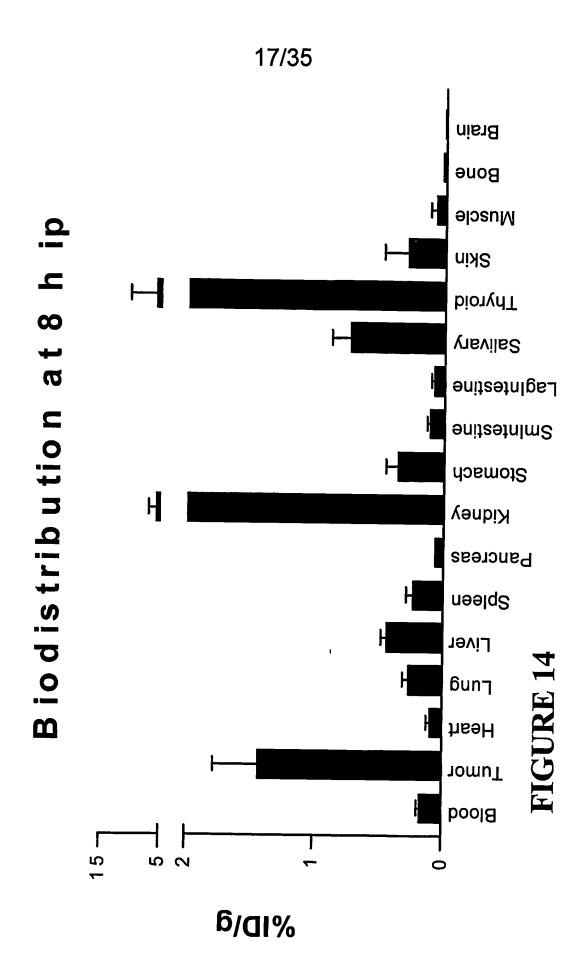
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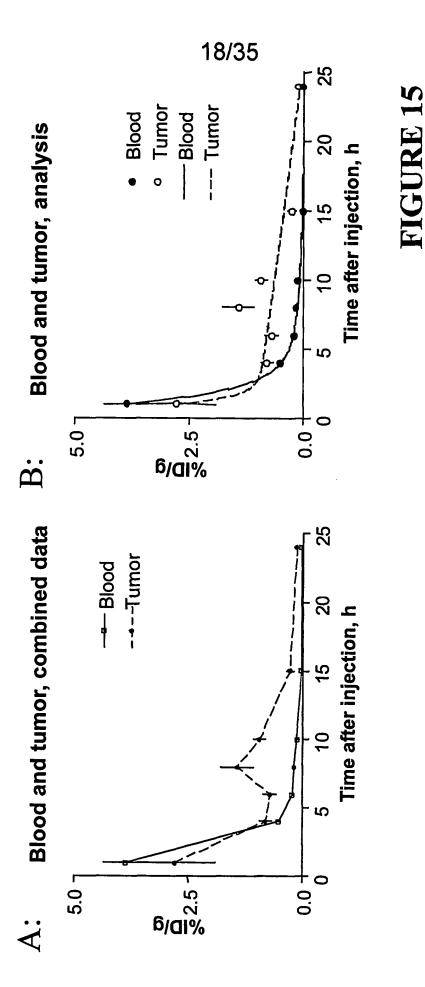


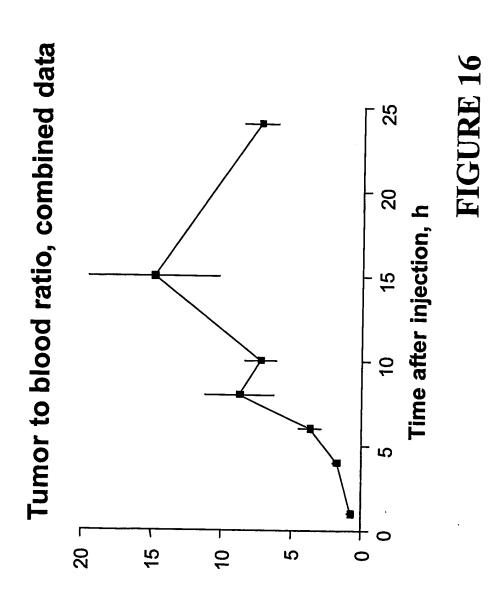
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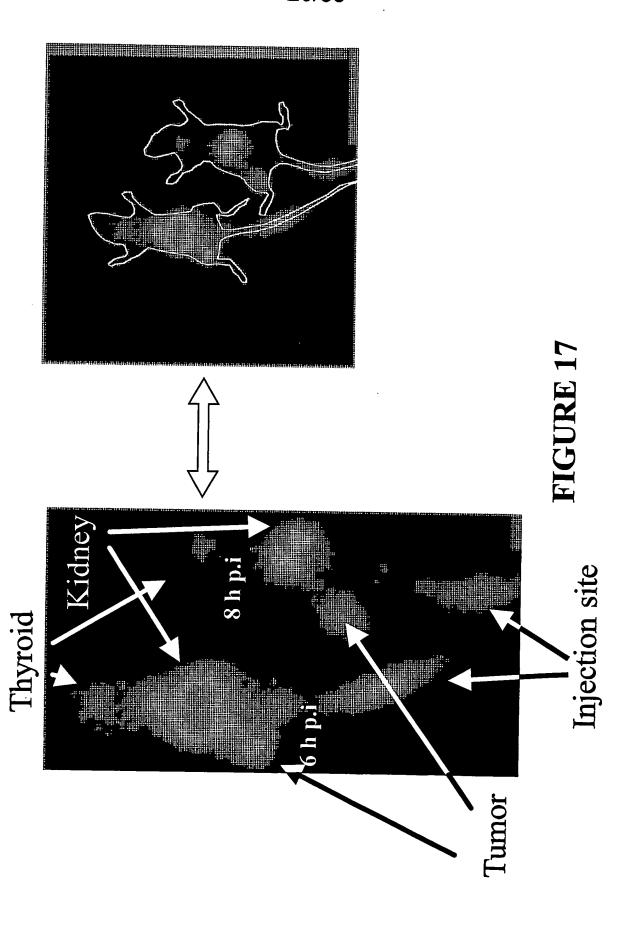




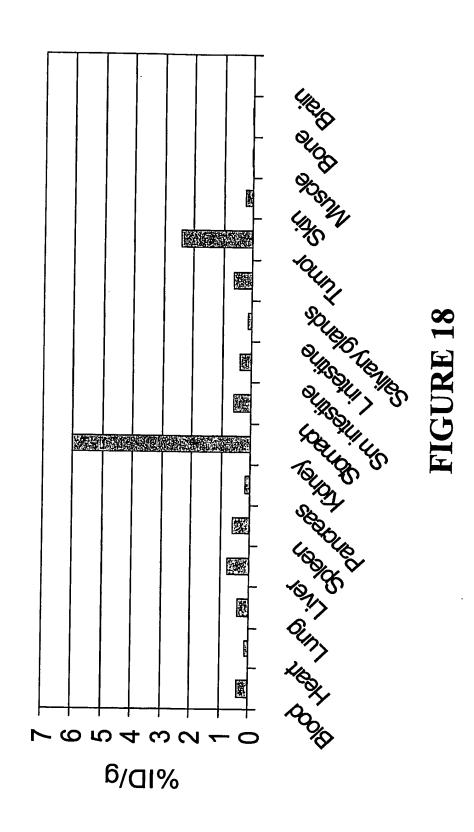


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Biodistribution of ZHER2 A 4 hours



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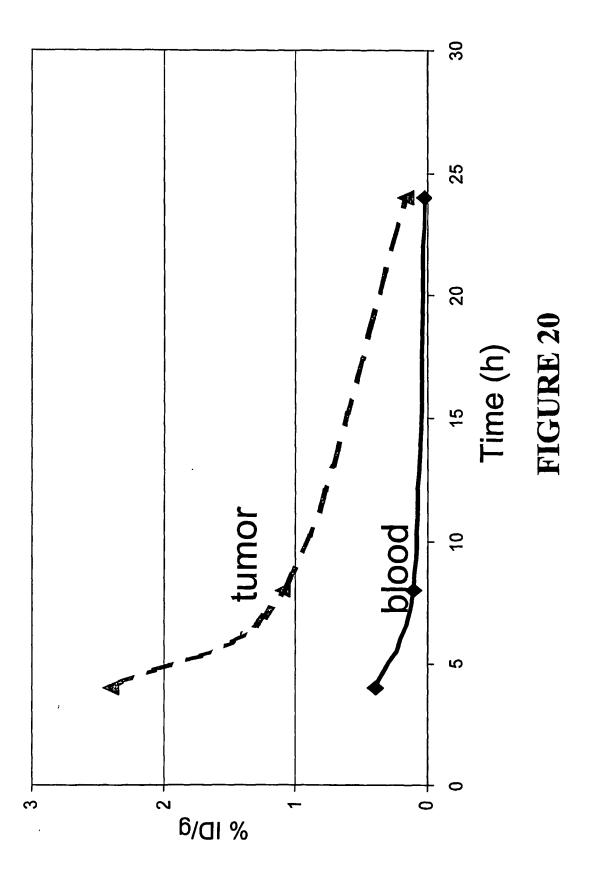
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Biodistribution of ZHER2 A, 24 hours

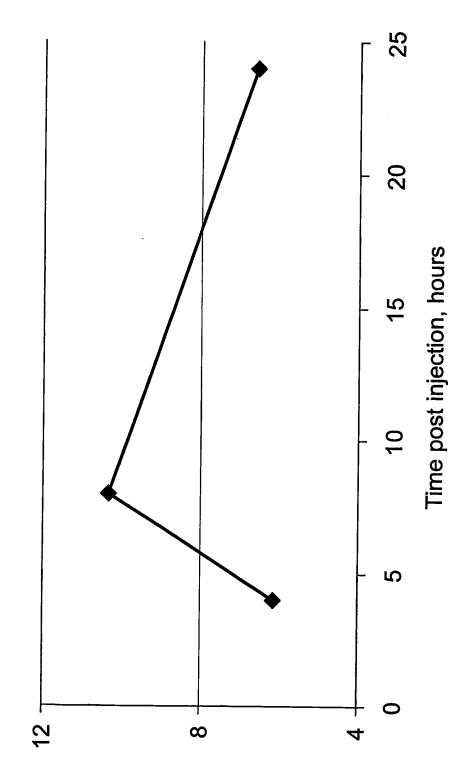
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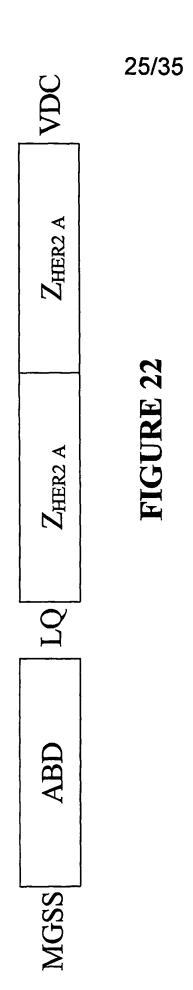
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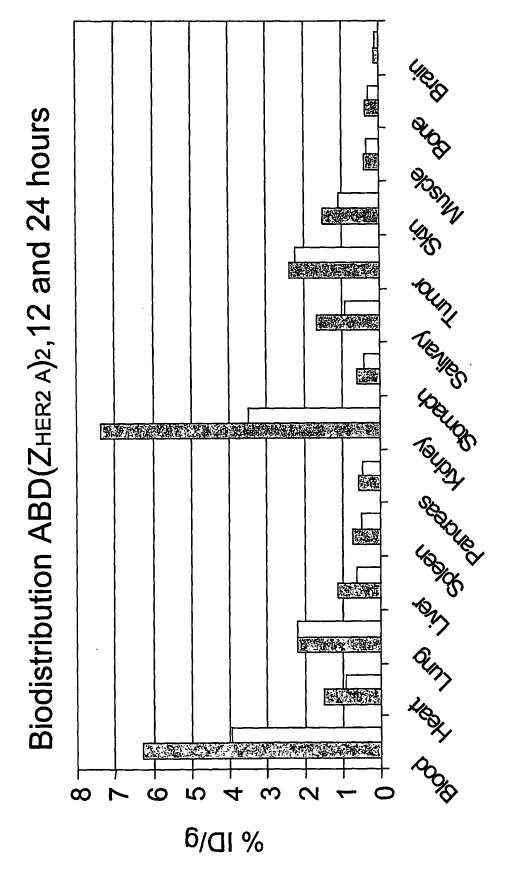


Tumor to blood ratio ZHER2A

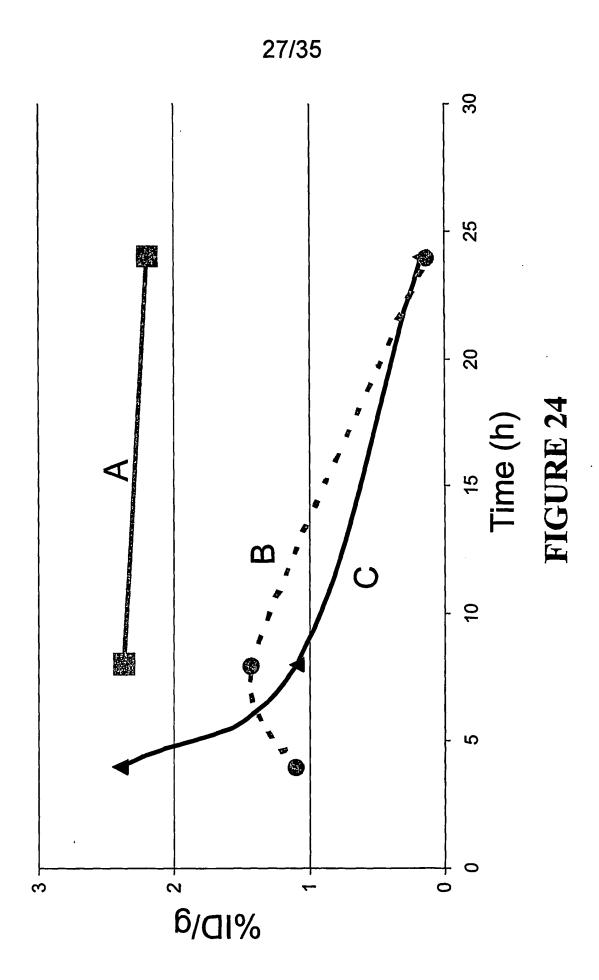




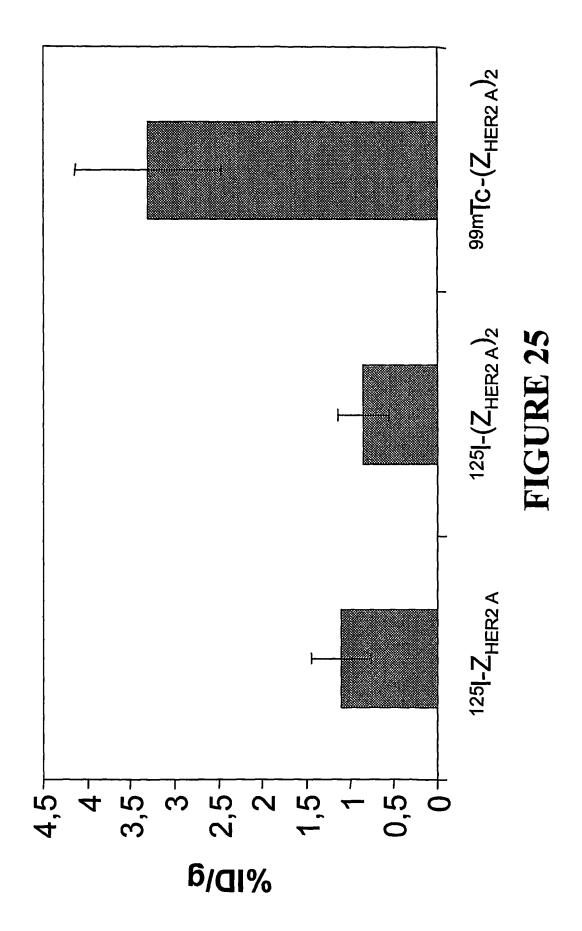




TGURE 23



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Tumor uptake at 8 h pi

 99m Tc- $(Z_{HER2}A)_2$, 8 hours H H H H

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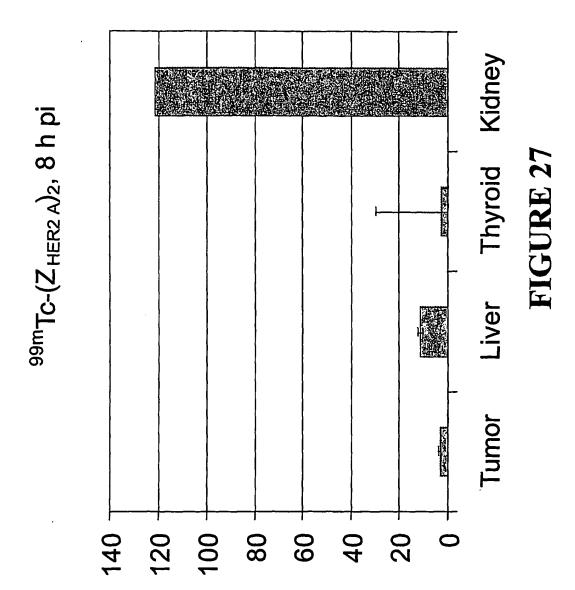
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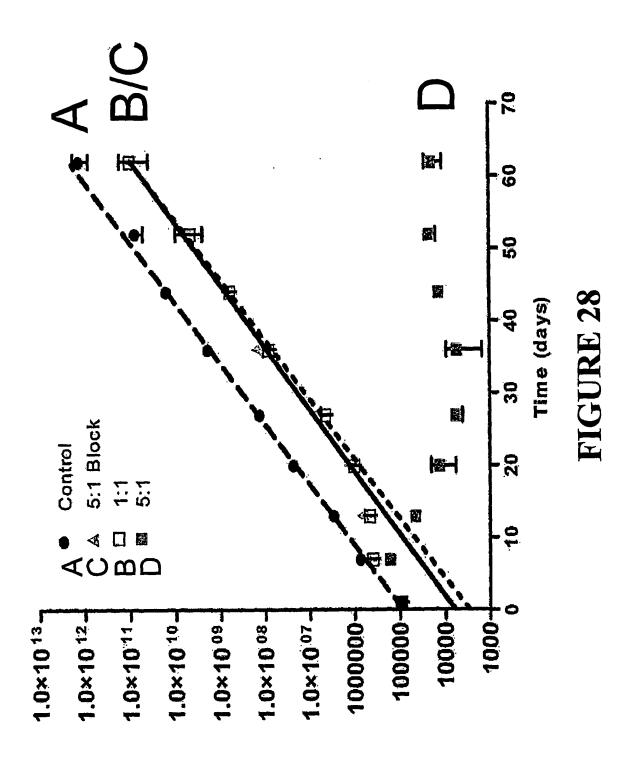
FIGURE 26

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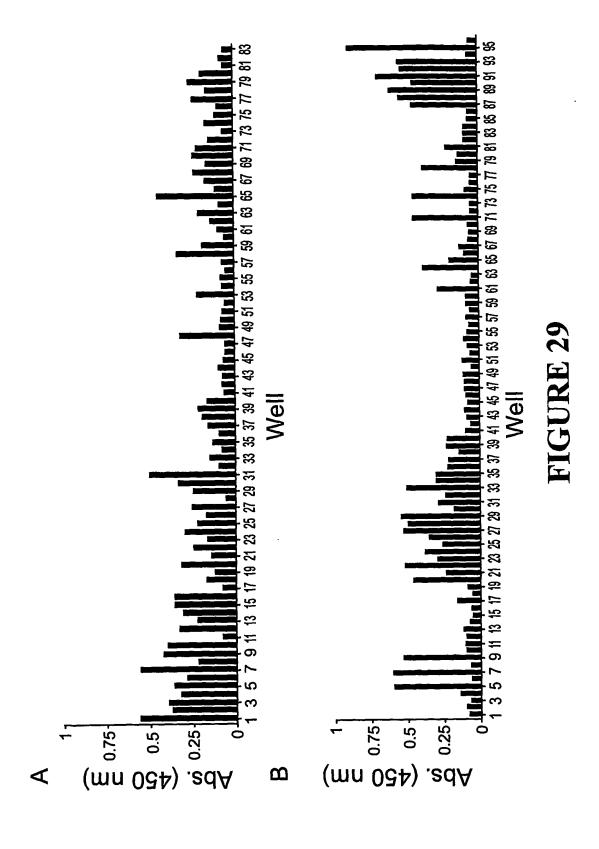


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Number of cells

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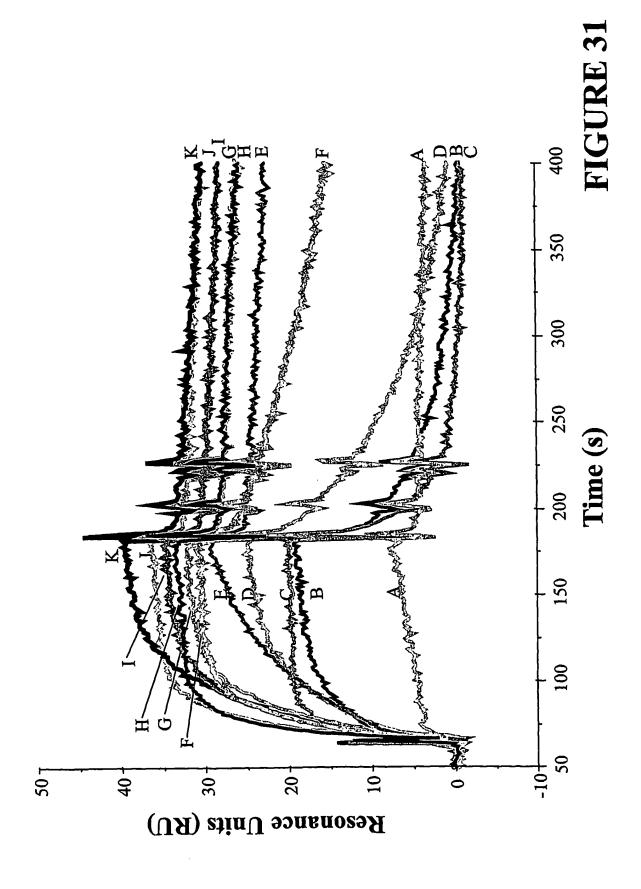
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FIGURE 30

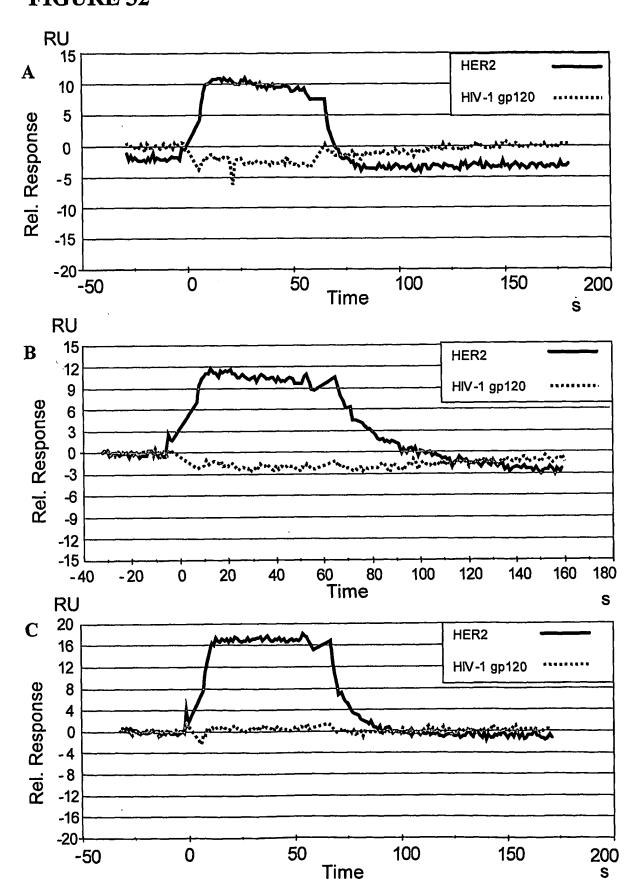
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